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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,379	01/23/2004	Young-Ki Chung	3056/3	4448

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EXAMINER

DANG, ROBERT TRONG

ART UNIT	PAPER NUMBER
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2838

DATE MAILED: 02/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/762,379	Applicant(s) CHUNG, YOUNG-KI	
	Examiner Robert T. Dang	Art Unit 2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) <u>2/2</u> | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>01/23/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The IDS submitted on 1/23/2004 lists three foreign patents by the same inventor to this application, but same are not considered prior art under any statutory category absent future indication by applicant to the contrary, such indication or lack thereof considered material to the prosecution.

Claim Objections

1. Claims 16-18 objected to because of the following informalities: Claims 16-18 are grammatically incorrect. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Fawthrop (5638248).

As to claim 1, Fawthrop discloses in figures 1 and 2, a space charge dissipation type air terminal comprising: a base (flat inside part of 24 or the ring part of 24) fixed to a floor; a fixing rod (20) installed on the base, in which a preliminary discharge member (Bottom portion of spiral), an auxiliary discharge member (30), an isolation member (3rd to last spiral), and a coupling member (4th to last spiral) are sequentially coupled to the fixing rod (20) and the isolation member is disposed between the fixing rod (20) and the

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auxiliary discharge member; and a fixing means for fixing the preliminary discharge member to the base or to the fixing rod, wherein the preliminary discharge member includes a discharge fin (14) assembly longitudinally coupled to a coupling ring (first washer) and having a plurality of discharge fins, and a discharge panel (the ring portion of 24) for supporting the discharge fin assembly, the discharge fin assembly is aligned around a ring member (second washer), and a gap is formed between the discharge fin assembly and the auxiliary discharge member.

As to claim 2, Fawthrop discloses in figures 1 and 2, further comprising at least two sets of discharge assemblies longitudinally aligned along the fixing rod, wherein each of the discharge assemblies includes the isolation member (another group of 5 coils in 14), the auxiliary discharge member, the ring member and the discharge fin assembly.

As to claim 3, Fawthrop discloses in figures 1 and 2, wherein an interval member having a ring shape (24) is interposed between the discharge assemblies.

As to claim 4-6, Fawthrop discloses in figures 1 and 2, wherein the coupling member includes a cap member or a nut (see the nut above the coupling ring in figure 2).

As to claims 7-9, Fawthrop discloses in figures 1 and 2, wherein the isolation member (3rd to last spiral) includes a hollow pipe section, which extends downwards and through which the fixing rod (20) extends

As to claims 10-12, Fawthrop discloses in figures 1 and 2, wherein the ring member (first washer) and the auxiliary discharge member (30) are sequentially aligned around the hollow pipe section from a lower portion of the hollow pipe section ends.

As to claims 13-15, Fawthrop discloses in figures 1 and 2, wherein an extension member (28), through which the fixing rod extends (20), is integrally formed with a lower surface of the discharge panel and a fixing screw section (22) is installed at a side of the extension member.

As to claims 16-18, Fawthrop discloses in figures 1 and 2, wherein a supporting pipe (28), through which the fixing screw section (22) is installed at a side of the extension member.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert T. Dang whose telephone number is 571-272-8326. The examiner can normally be reached on M-F, 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl D. Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

**KARL EASTHOM
SUPERVISORY PATENT EXAMINER**

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RTD



KARL EASTHOM
SUPERVISORY PATENT EXAMINER